



# THE PRIME EXAMINATIONS 2024

## P.6 MID TERM III

### MATHEMATICS (New Curriculum)

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Time allocated 2 hours 30 minutes



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#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two sections: A and B**. Section A has **20 questions (40 Marks)** and Section B has **12 questions (60 Marks)**
2. Answer **ALL** questions. All the working for both sections A and B must be shown in the spaces provided.
3. All working **must** be done using a **blue or black ball point pen or ink**. Any work done in pencil other than on graphs and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary **changes** in your work and **handwriting** that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated

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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED  
  
Consultant  
Mathematics Department (PEC)

### Section A. (40 Marks)

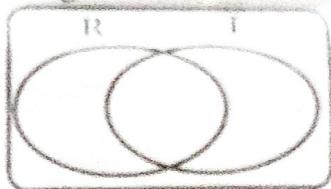
1 Work out:  $24 \div 8$

2 Show 1042 on the abacus.



3 Solve for y:  $3y - 12 = 6$

4 Shade the complement of set T in the diagram below.



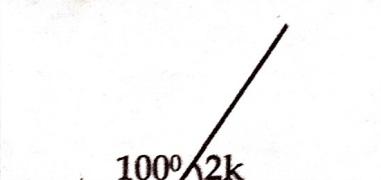
5 Write 2975 in expanded form using powers of ten.

6 The diameter of a bicycle wheel is 61cm. Find its radius.

7 Using a pair of compasses, ruler and a pencil only, construct an angle of  $45^\circ$ .

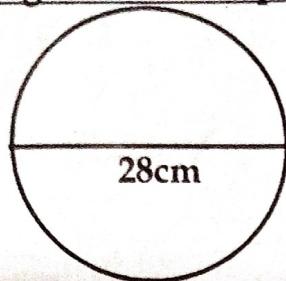
8 Given that  $Y = \frac{1}{8}$  and  $Z = \frac{1}{10}$ .  
Find the value of  $Y + Z$

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<p>11 In a class of 72 pupils, the ratio of boys to girls is 3:5 respectively. How many girls are in the class?</p>	<p>12 Express 5.8kg as grammes.</p>
<p>13 A fifty minutes assembly ended at 10:10am. At what time did it start?</p>	<p>14 Find the value of <math>k</math> in the figure below.</p> <p></p>
<p>15 The area of a square book is <math>64\text{cm}^2</math>. Find the length of the book.</p>	<p>16 Ouma passed 30% of the questions in an English test of 50 questions. How many questions did Ouma pass?</p>
<p>17 Atuhaire bought milk in packets of 750ml. If she bought 3000ml of milk, how many packets did She buy?</p>	<p>18 The LCM of two numbers is 60. If their GCF is 3. Find the product of the numbers.</p>
<p>19 Given 65421, find the value of 6 and 4.</p>	<p>20 If 6 men slash a compound in 8 hours, how many men are required to do the same work in 12 hours?</p>

**Section B. (60 Marks)**

- 21 The diagram below represents a circular fish pond.



(a) Find the area of the fish pond. (03 marks)

(b) Find the circumference of the fish pond. (02 marks)

- 22 (a) Using a pair of compasses, a ruler and a pencil only, construct an equilateral triangle in a circle of radius 3.5cm (04 marks)

(b) Measure the length of the triangle. (01 mark)

- 23 (a) Workout  $+6 - +2$  using a number line. (03 marks)



- (b) Find the additive inverse of  $-4$  (02 marks)

- 24 The sum of 3 consecutive counting numbers is 54. Find the numbers. (05 marks)

- 25 A motorist left town A at 8:15pm moving at a speed of 80km/h and reached after  $2\frac{1}{2}$  hours.

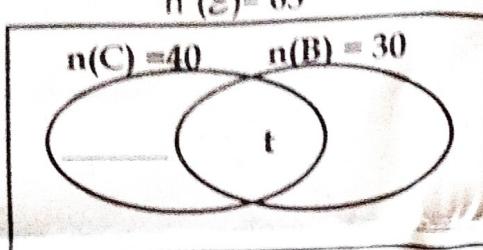
- (a) At what time did the motorist reach town B? (03 marks)

- (a) How far is town B from town A? (02marks)

26 In a class of 65 girls, 40 girls like playing Chess(C), 30 girls like playing Basketball(B), t girls like playing both games while 4 girls like playing none of the two games.

(a) Use the above information and complete the Venn diagram below.

(02marks)



(b) Find the value of t

(02 marks)

27 Complete the shopping bill table below.

(05 marks)

ITEM	QUANTITY	UNIT PRICE	AMOUNT
Bread	3 loaves	sh 4000 per loaf	sh _____
Rice	_____ kg	sh 3000 per kg	sh 13,500
Milk	$2 \frac{1}{2}$ litres	sh _____ per litre	sh _____
<b>Total Expenditure</b>			sh 28,500

28

(a) Workout:  $\frac{1}{2} + \frac{2}{5} \times \frac{1}{3}$

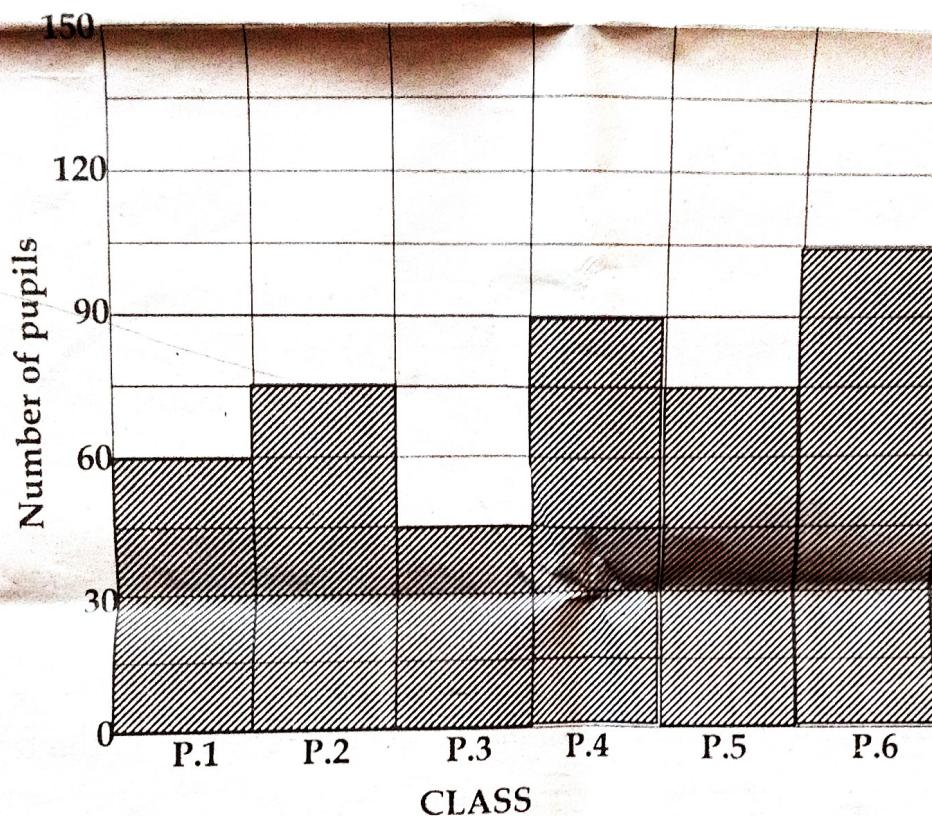
(02 marks)

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(b) Simplify:  $\frac{0.045 \times 2.6}{1.8}$

(03 marks)

29 The graph below shows the number of pupils in each class in a school.



(a) How many pupils are in P.3 class?

(02 marks)

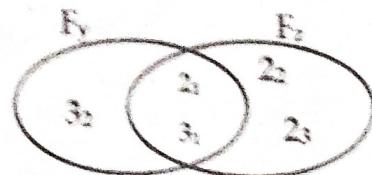
(b) Find the total number of pupils in P.2 and P.6.

(02marks)

(c) How many more pupils were in P.4 than P.1?

(02marks)

30 Study the Venn diagram below and use it to answer the questions that follow.



(a) Find the value of;

(i) y

(02 marks)

(ii) z

(02 marks)

(b) Find the GCF of  $F_1$  and  $F_2$ .

(01 mark)

31 (a) Workout:  $2 - 4 \times 3 + 16$

(02 marks)

b) Add: 4728 + 6382

(02 marks)

32 In a mathematics test given to a class, marks scored are shown in the table below.

Marks scored	4	5	6	7	9
No. of pupils	4	9	14	8	5

(a) What was the modal mark?

(02 marks)

(b) How many pupils were in the class?

(02 marks)

(c) Calculate the range score.

(02 marks)